

FORM PTO-1390 (REV. 10-2003)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 644P003
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/510264
INTERNATIONAL APPLICATION NO. PCT/KR03/02619	INTERNATIONAL FILING DATE 1 December 2003		PRIORITY DATE CLAIMED 7 March 2003	
TITLE OF INVENTION METHOD FOR CONTINUOUS PREPARATION OF NANOMETER-SIZED HYDROUS ZIRCONIA SOL				
APPLICANT(S) FOR DO/EO/US Hee Young Kim, Yong Ki Park, Kyung Koo Yoon and Hyung Sup Lim				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). </p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>				
Items 11 to 20 below concern document(s) or information included:				
<p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13^{ter}.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: <ul style="list-style-type: none"> 1. Copy of the International Search Report; 2. Copy of Form PCT/IB/304; and 3. PCT Request (5-Pages). </p>				

U.S. APPLICATION NUMBER (If known, see 37 CFR 1.2)	INTERNATIONAL APPLICATION NO.	PCT/KR03/02619	ATTORNEY'S DOCKET NUMBER 644P003
21. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS PTO USE ONLY	
BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):			
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO..... \$1,110.00			
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$ 950.00			
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$ 790.00			
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$ 750.00			
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$ 100.00			
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 1,110.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$ -	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	16 - 20 =	0	x \$ 18.00
Independent claims	1 - 3 =	0	x \$ 88.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$300.00	\$ 0
TOTAL OF ABOVE CALCULATIONS =		\$ 1,110.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$ 555.00	
SUBTOTAL =		\$ 555.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$ -	
TOTAL NATIONAL FEE =		\$ 555.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$ 40.00	
TOTAL FEES ENCLOSED =		\$ 595.00	
		Amount to be refunded:	\$
		charged:	\$
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>555.00</u> & <u>40.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>14-0930</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>			
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</p>			
SEND ALL CORRESPONDENCE TO:		 Nields & Lemack 176 E. Main Street Suite 7 Westboro, MA 01581	
		SIGNATURE	Kevin S. Lemack
		NAME	
		32,579	
		REGISTRATION NUMBER	

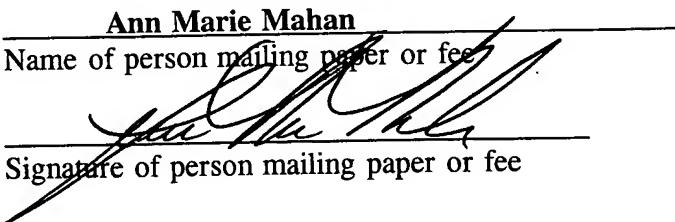
10/510264
DT03 Rec'd PCT/PTO 05 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Hee Young Kim et al.
Serial No. : Not yet assigned (PCT/KR03/02619)
Filed : Herewith By Express Mail (1 December 2003)
For : METHOD FOR CONTINUOUS PREPARATION OF
NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Letter

"EXPRESS MAIL" MAILING LABEL NO ER 908004201 US
DATE OF DEPOSIT: October 5, 2004

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, **Mail Stop: PCT**, Alexandria, VA 22313-1450.

Ann Marie Mahan
Name of person mailing paper or fee

Signature of person mailing paper or fee

10/510264

DT05 Rec'd PCT/PTO 05 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

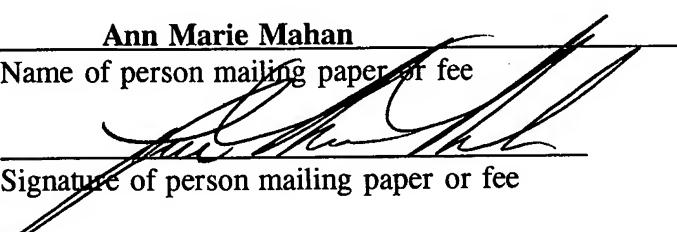
Applicants : Hee Young Kim et al.
Serial No. : Not yet assigned (PCT/KR03/02619)
Filed : Herewith By Express Mail (1 December 2003)
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NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Copy of the Notification Concerning Submission or Transmittal of
Priority Documents (Form PCT/IB/304)

"EXPRESS MAIL" MAILING LABEL NO ER 908004201 US
DATE OF DEPOSIT: October 5, 2004

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NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Assignment

"EXPRESS MAIL" MAILING LABEL NO ER 908004201 US
DATE OF DEPOSIT: October 5, 2004

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10/510264

DT05 Rec'd PCT/PTO 05 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

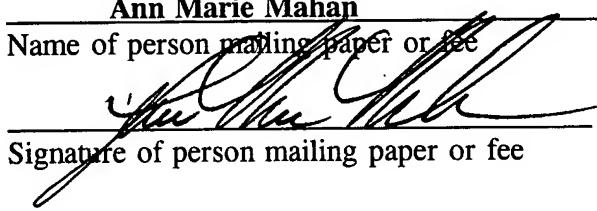
Applicants : Hee Young Kim et al.
Serial No. : Not yet assigned (PCT/KR03/02619)
Filed : Herewith By Express Mail (1 December 2003)
For : METHOD FOR CONTINUOUS PREPARATION OF
NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Recording Fee

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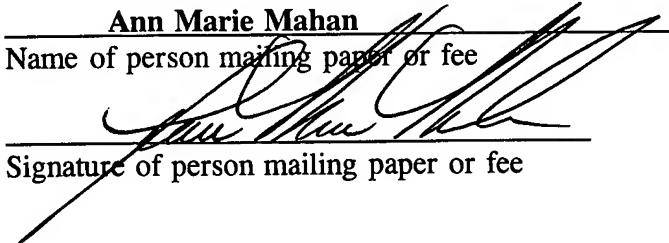
DT05 Rec'd PCT/PTO 05 OCT 2004

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Applicants : Hee Young Kim et al.
Serial No. : Not yet assigned (PCT/KR03/02619)
Filed : Herewith By Express Mail (1 December 2003)
For : METHOD FOR CONTINUOUS PREPARATION OF
NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Copy of the International Search Report

"EXPRESS MAIL" MAILING LABEL NO ER 908004201 US
DATE OF DEPOSIT: October 5, 2004

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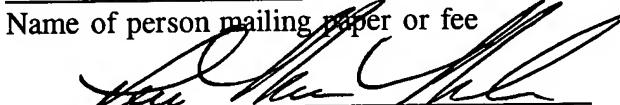
Applicants : Hee Young Kim et al.
Serial No. : Not yet assigned (PCT/KR03/02619)
Filed : Herewith By Express Mail (1 December 2003)
For : METHOD FOR CONTINUOUS PREPARATION OF
NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Filing Fee

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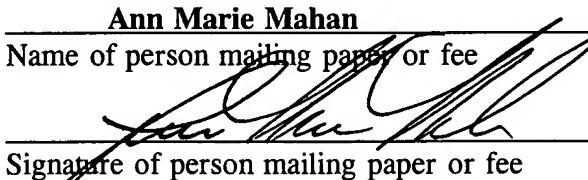
DT05 Rec'd PCT/PTO 05 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Hee Young Kim et al.
Serial No. : Not yet assigned (PCT/KR03/02619)
Filed : Herewith By Express Mail (1 December 2003)
For : METHOD FOR CONTINUOUS PREPARATION OF
NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Executed Declaration and Powers of Attorney

"EXPRESS MAIL" MAILING LABEL NO ER 908004201 US
DATE OF DEPOSIT: October 5, 2004

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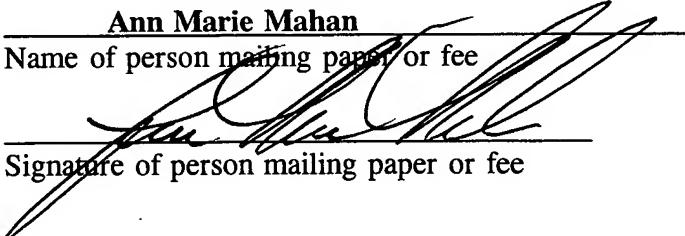
DT05 Rec'd PCT/PTO 05 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Hee Young Kim et al.
Serial No. : Not yet assigned (PCT/KR03/02619)
Filed : Herewith By Express Mail (1 December 2003)
For : METHOD FOR CONTINUOUS PREPARATION OF
NANOMETER-SIZED HYDROUS ZIRCONIA SOL
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Preliminary Amendment

"EXPRESS MAIL" MAILING LABEL NO ER 908004201 US
DATE OF DEPOSIT: October 5, 2004

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Ann Marie Mahan
Name of person mailing paper or fee

Signature of person mailing paper or fee

10/510264

DT05 Rec'd PCT/PTO 05 OCT 2004

Attorney Docket No. 644P003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

**Hee Young Kim, Yong Ki Park, Kyung Koo Yoon and
Hyung Sup Lim**

For: **METHOD FOR CONTINUOUS PREPARATION OF NANOMETER-SIZED
HYDROUS ZIRCONIA SOL**

Mail Stop: PCT

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

LETTER

The above-identified applicants enclose for filing the national phase of a PCT patent application (PCT/KR03/02619) entitled "METHOD FOR CONTINUOUS PREPARATION OF NANOMETER-SIZED HYDROUS ZIRCONIA SOL". Said attached PCT patent application includes (1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (2-Pages); (2) Translation of the International Application into English: 5-Page Request, 48-Page Specification (including 5-Pages of Claims (16) and 1-Page Abstract) and 11-sheets of A4 size formal drawings; (3) Executed Declaration (3-Pages) and Powers of Attorney (4-Pages); (4) Preliminary Amendment (3-Pages); (5) Check in the amount of \$555.00 in payment of the Filing Fee; (6) Copy of the International Search Report (3-pages); (7) Recordation Form Cover Sheet (1-Page), Assignment (2-Pages); (8) Check in the amount of \$40.00 in payment of the Recording Fee; and (9) Copy of the Notification Concerning Submission of Priority Document (Form PCT/IB/304)(1-Page).

All correspondence concerning this application should be mailed to: CUSTOMER NO: 42754

Kevin S. Lemack
Nields & Lemack
176 E. Main Street - Suite 7
Westboro, Massachusetts 01581

Respectfully submitted,


Kevin S. Lemack
Attorney for Applicant
Registration No. 32,579

Date: October 5, 2004

EXPRESS MAIL NO: ER 908004201 US

10/510264

T05 Rec'd PCT/PTO 05 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

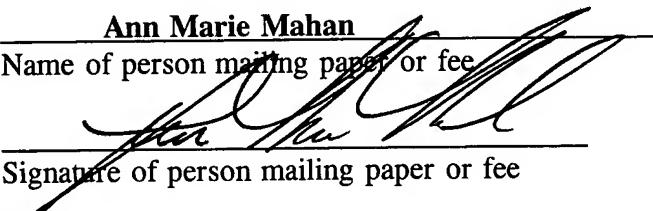
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Examiner : Not yet assigned
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Attorney
Docket No. : 644P003
Type of paper : Transmittal Letter to the United States Designated/Elected Office
(DO/EO/US) Concerning A Filing Under 35 U.S.C. 371

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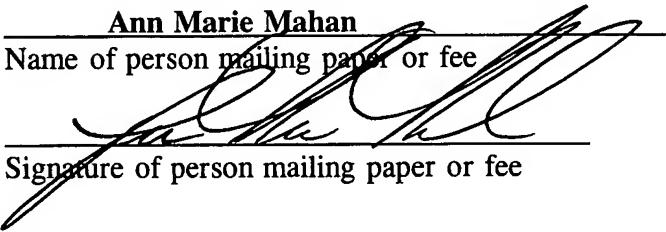
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Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 644P003
Type of paper : Translation of the International Application into English

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